

**Garant**
**GARANT Master Steel solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 7mm**

**Order data**

Order number	203035 7
GTIN	4045197728104
Item class	11X

**Description**
**Version:**

For **roughing and finishing**.

Up to 1.5×D into solid material **at very high feed rates** with smooth cutting action.

**Advantage:**

Optimised flute form, eccentric relief ground, wide chip space.

**Technical description**

Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.04 mm
Corner chamfer width at 45°	0.14 mm
Overhang length $L_1$ incl. recess	25 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.05 mm
Recess Ø $D_1$	6.8 mm
Cutting edge Ø $D_c$	7 mm
No. of teeth Z	4
Shank Ø $D_s$	8 mm
Overall length L	63 mm
Flute length $L_c$	16 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6

Tolerance nominal $\varnothing$	f8
Helix angle	38 degrees
Corner chamfer angle	45 degrees
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	0.3×D for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	260 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	240 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	190 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable only under restricted conditions	150 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	80 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	70 m/min	M
GG(G)	suitable	250 m/min	K
Uni	suitable		

wet maximum	suitable
wet minimum	suitable only under restricted conditions
dry	suitable
Air	suitable